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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/047,652	03/25/1998	VASSILIOS PAPADOPOULOS	009/064/SAP	3470
21186 7590 12/27/2006 SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			EXAMINER	
			DAVIS, MINH TAM B	
			ART UNIT	PAPER NUMBER
			1642	
				
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 12/27/2006		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•	Application No.	Applicant(s)			
085 - 4 - 45 - 4 - 0	09/047,652	PAPADOPOULOS ET AL.			
Office Action Summary	Examiner	Art Unit			
	MINH-TAM DAVIS	1642			
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI .136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS fr ite, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status	•				
1) Pespansive to communication(s) filed on 12	Octobor 2006				
	Responsive to communication(s) filed on 12 October 2006. This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
olooca in accordance with the practice anaci	Exparte Quayre, 1000 C.D. 11,	400 O.O. 210.			
Disposition of Claims		•			
4) Claim(s) 53-55,58-60,63,64,66-68,70,72-74, 78,79,81,82 is/are pending in the application.					
4a) Of the above claim(s) <u>58-60</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 53-55,63,64,66-68,70,72-74,78,79,81 and 82 is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers					
9) The specification is objected to by the Examir	nor				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre		•			
11) The oath or declaration is objected to by the		-			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).			
1. Certified copies of the priority documer	nts have been received.				
2. Certified copies of the priority documer	nts have been received in Applic	cation No			
3. Copies of the certified copies of the pri	ority documents have been rece	eived in this National Stage			
application from the International Bure	au (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	st of the certified copies not rece	ived.			
•	•				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summa	ary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	. 5) Notice of Informa	al Patent Application			
Paper No(s)/Mail Date <u>10/12/06</u> .	6)				

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DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Accordingly, claims 53-55, 63-64, 66-68, 70, 72-74, 78-79, 81-82 are examined in the instant application.

Claim Rejections - 35 USC § 101, Utility

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 53-55, 63-64, 66-68, 70, 72-74, 78-79, 81-82 remain rejected under 35 USC 101, for lack of support by either a specific or well established utility, for reasons already of record in paper of 07/12/06.

The response asserts that variants PBR gene disclosed in the instant specification has been detected in Jurkat cells and human genomic DNA, as taught by Costa et al, 2006, and Kurumaji et al, 2002. The response asserts that overexpression of PBR is associated with an aggressive phenotype in certain tumors, as taught by Morgan et al, 2004, Maaser et al, 2002, and Han et al, 2003, and concludes that thus detection of PBRs in these tumor would be useful for detecting the aggressiveness of cancer. Further, a Declaration by Dr. Papadopoulos is submitted. In the Declaration, variant codon 147 PBR mRNA is found in colon and breast tumor biopsies.

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The recitation of Costa et al, 2006, and Kurumaji et al, 2002, Morgan et al, 2004, Maaser et al, 2002, and Han et al, 2003 and the submission of the Declaration by Dr. Papadopoulos are acknowledged and entered.

The response has been considered but is not found to be persuasive for the following reasons:

The claimed nucleic acid encodes a PBR protein having both two mutations, one at position 147 and one at position 162. The Declaration however shows that only one mutation, at position 147, exists in colon and breast cancer biopsies. Further, the submitted abstract of Kurumaji et al, 2002, does not teach that the two mutations in BPR gene in the Japanese sample are the same as the claimed mutation at positions 147 and 162, nor any association of these mutations with disease. Moreover, the Jurkat cells taught by Costa et al, 2006, are cells in tissue culture only, and not cancer tissue.

One cannot however determine that the single mutation at position 162, or the encoded residues 27-169 of SEQ ID N:3, having mutation at both positions 147 and 162 exists in human cancer tissue. The mutation at position 162 is found only in cancer cells in tissue culture, and thus one cannot predict that said mutation also exist in cancer tissue, due to the well known cell culture artifacts, in view of the teaching of Drexler et al, Embleton et al, Hsu et al, Tian et al, Van Dyke et al, Zaslav et al, and Kunkel et al, all of record, and in view that each mutation is an independent, unpredictable event.

Moreover, although overexpression of PBR is associated with an aggressive phenotype in certain tumors, whether these tumors have the claimed mutations at position 162, or at both positions 147 and 162 is not predictable.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH-TAM DAVIS whose telephone number is 571-272-0830. The examiner can normally be reached on 9:00 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SHANON FOLEY can be reached on 571-272-0898. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MINH TAM DAVIS December 18, 2006

SHANON FOLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

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